

FIG.1

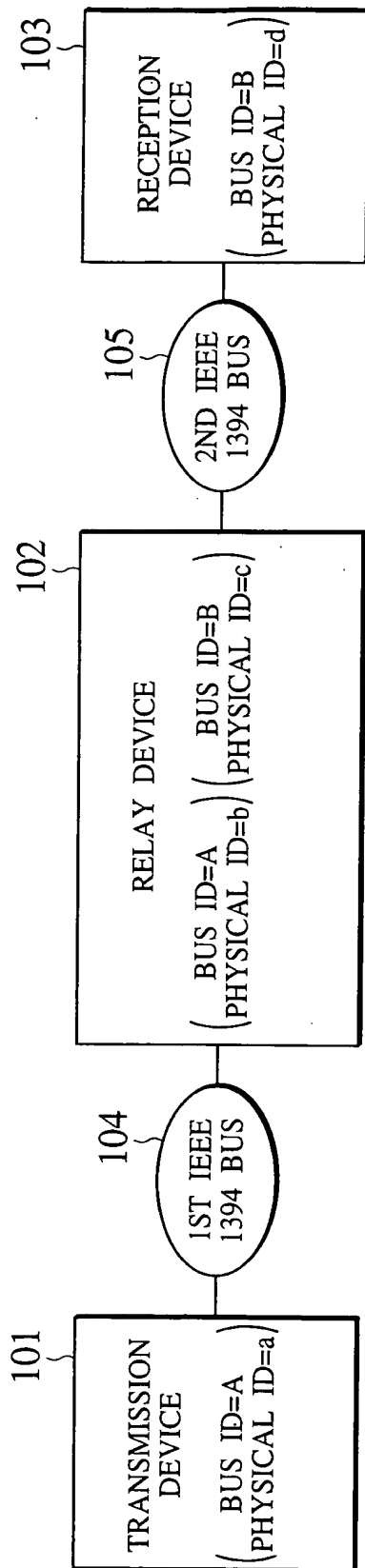
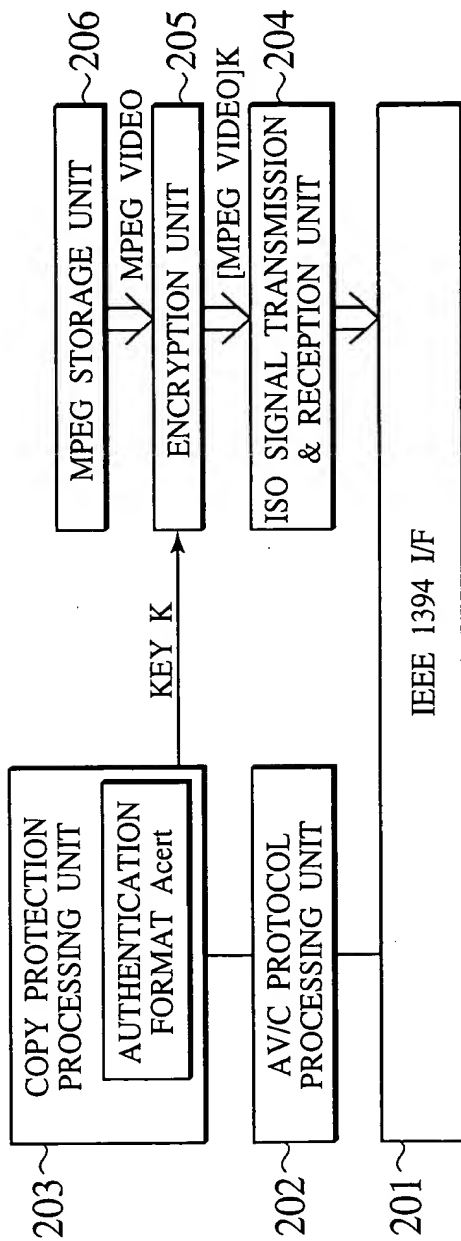


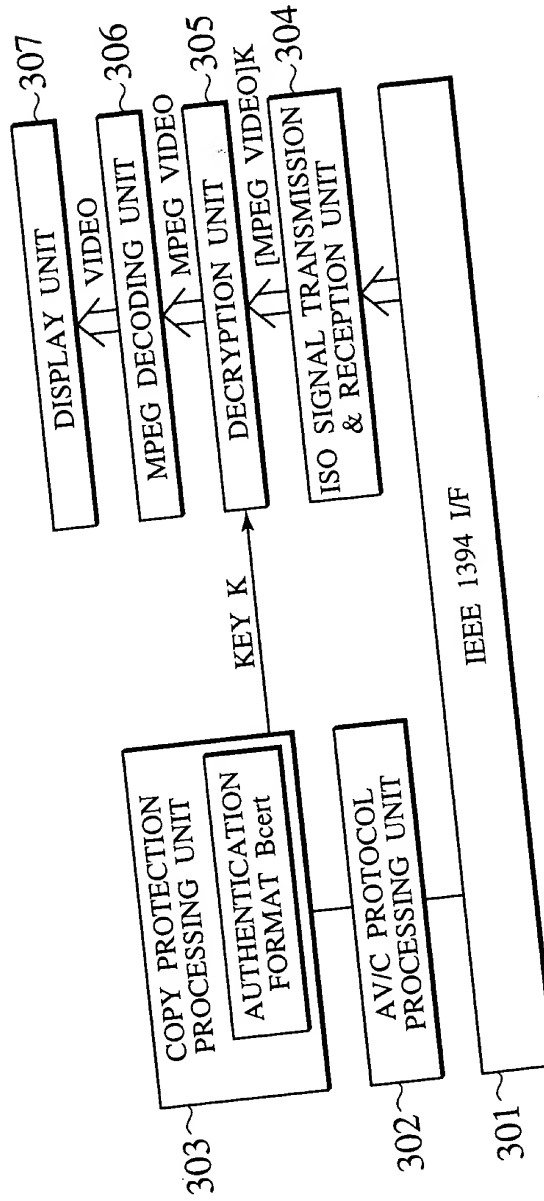
FIG.2



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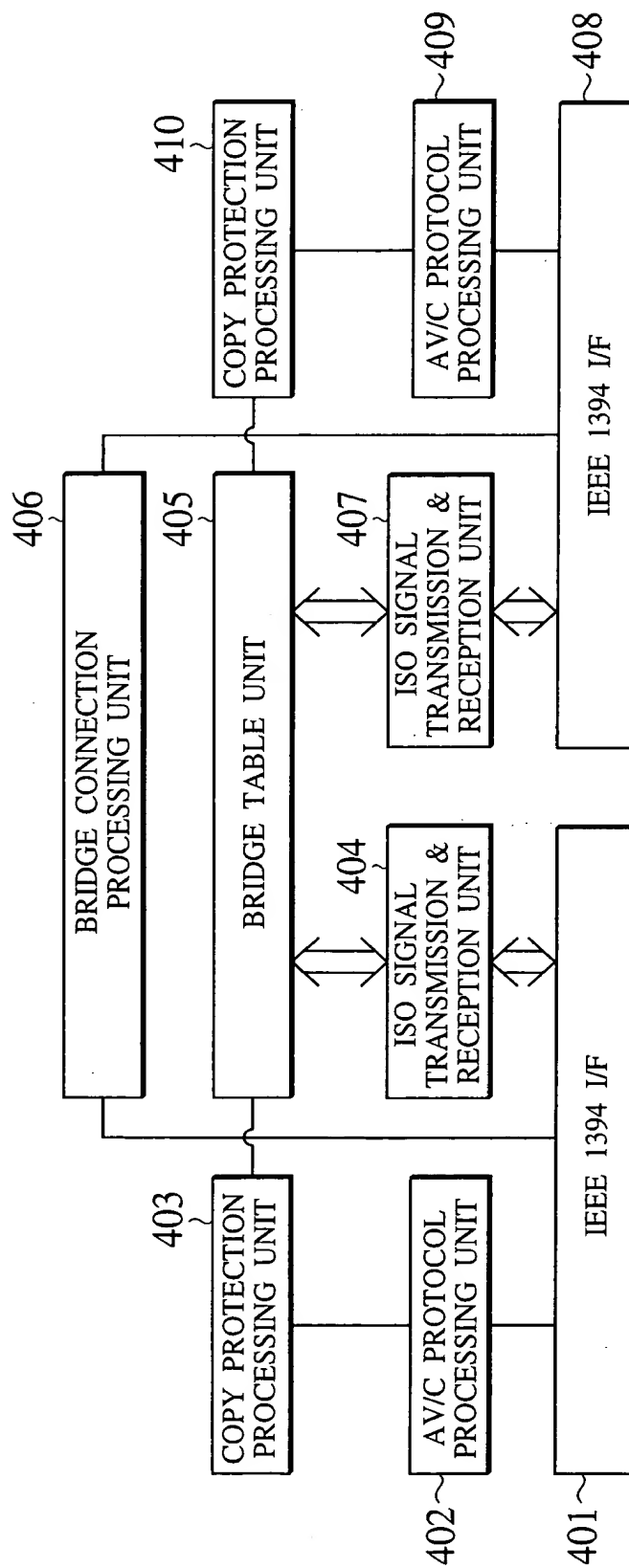
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FIG. 3



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FIG.4



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FIG.5A

| 1ST IEEE 1394 SIDE |                                   | 2ND IEEE 1394 SIDE |
|--------------------|-----------------------------------|--------------------|
| #x                 | ISOCRONOUS CHANNEL NUMBER         | #y                 |
| TRANSMITTING SIDE  | TRANSMISSION/ RECEPTION DIRECTION | RECEIVING SIDE     |
|                    | SENDER                            |                    |
|                    | AUTHENTICATION TARGET             |                    |

FIG.5B

| 1ST IEEE 1394 SIDE |                                   | 2ND IEEE 1394 SIDE |
|--------------------|-----------------------------------|--------------------|
| #x                 | ISOCRONOUS CHANNEL NUMBER         | #y                 |
| TRANSMITTING SIDE  | TRANSMISSION/ RECEPTION DIRECTION | RECEIVING SIDE     |
| (A,a)              | SENDER                            | THIS DEVICE        |
|                    | AUTHENTICATION TARGET             |                    |

FIG.5C

| 1ST IEEE 1394 SIDE |                                   | 2ND IEEE 1394 SIDE |
|--------------------|-----------------------------------|--------------------|
| #x                 | ISOCRONOUS CHANNEL NUMBER         | #y                 |
| TRANSMITTING SIDE  | TRANSMISSION/ RECEPTION DIRECTION | RECEIVING SIDE     |
| (A,a)              | SENDER                            | THIS DEVICE        |
|                    | AUTHENTICATION TARGET             | (B,d),iPCR[0]      |

FIG.5D

| 1ST IEEE 1394 SIDE |                                   | 2ND IEEE 1394 SIDE |
|--------------------|-----------------------------------|--------------------|
| #x                 | ISOCRONOUS CHANNEL NUMBER         | #y                 |
| TRANSMITTING SIDE  | TRANSMISSION/ RECEPTION DIRECTION | RECEIVING SIDE     |
| (A,a)              | SENDER                            | THIS DEVICE        |
| (A,a),oPCR[0]      | AUTHENTICATION TARGET             | (B,d),iPCR[0]      |

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FIG.6

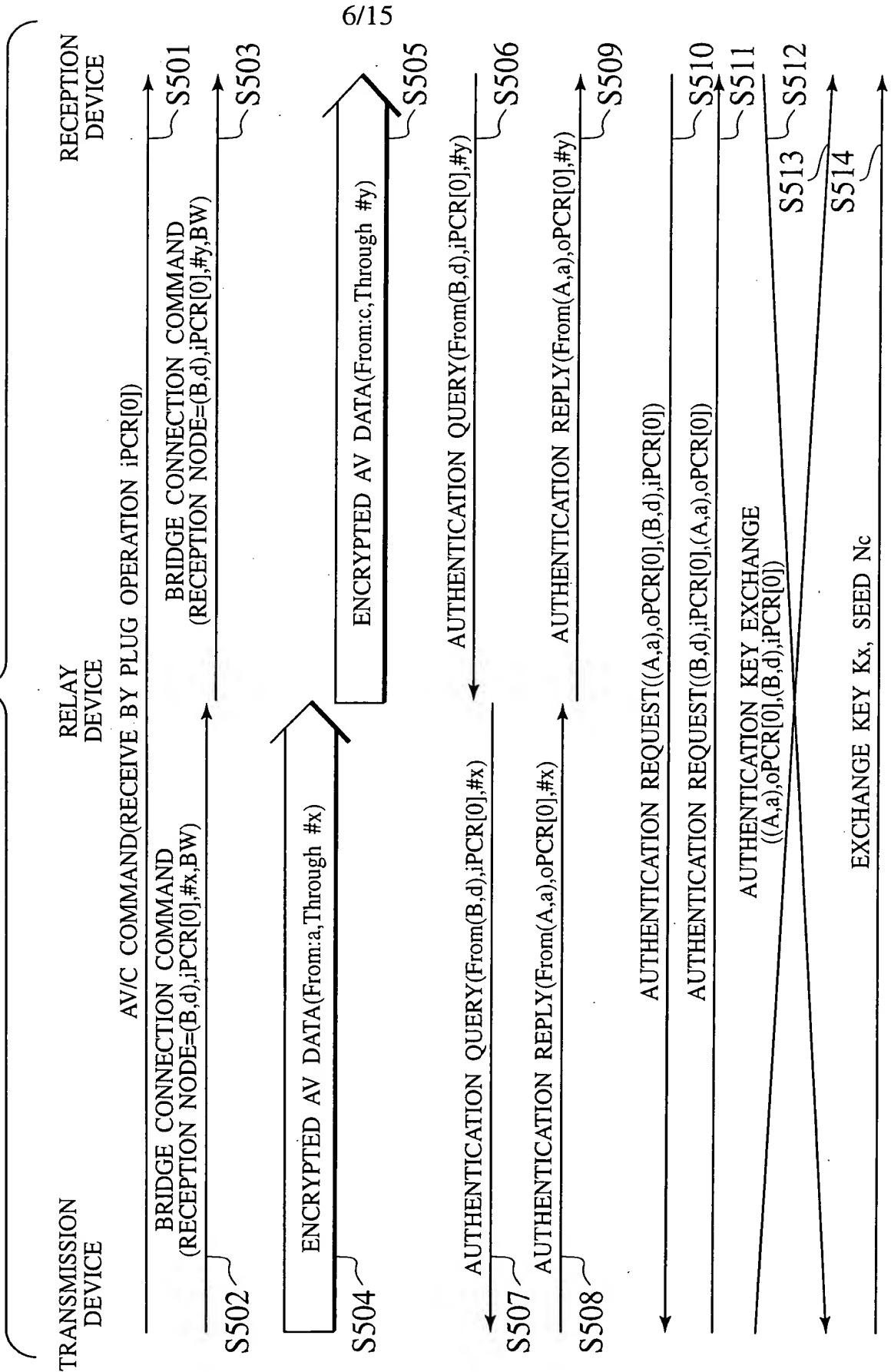
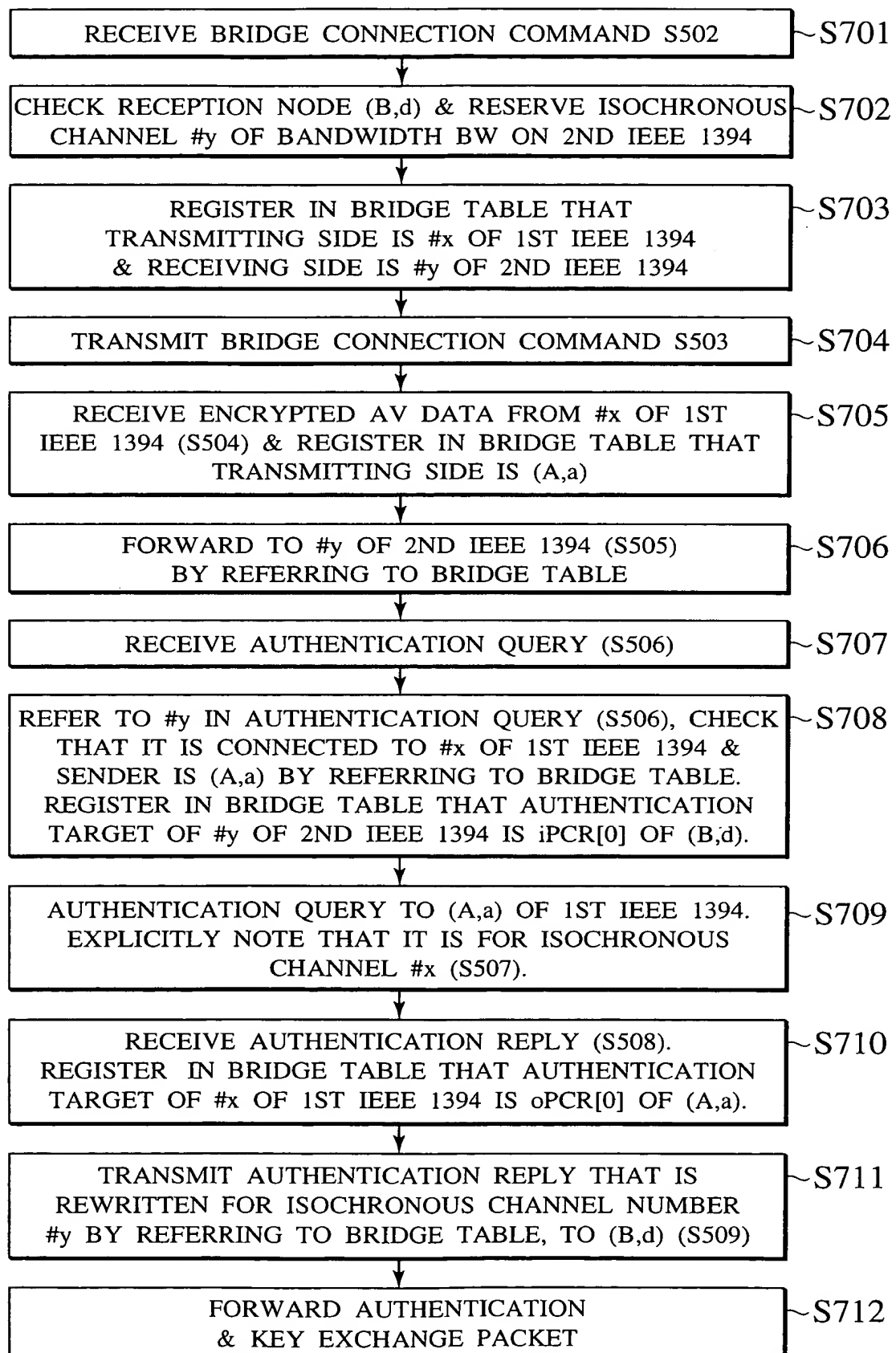


FIG. 7

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FIG. 8

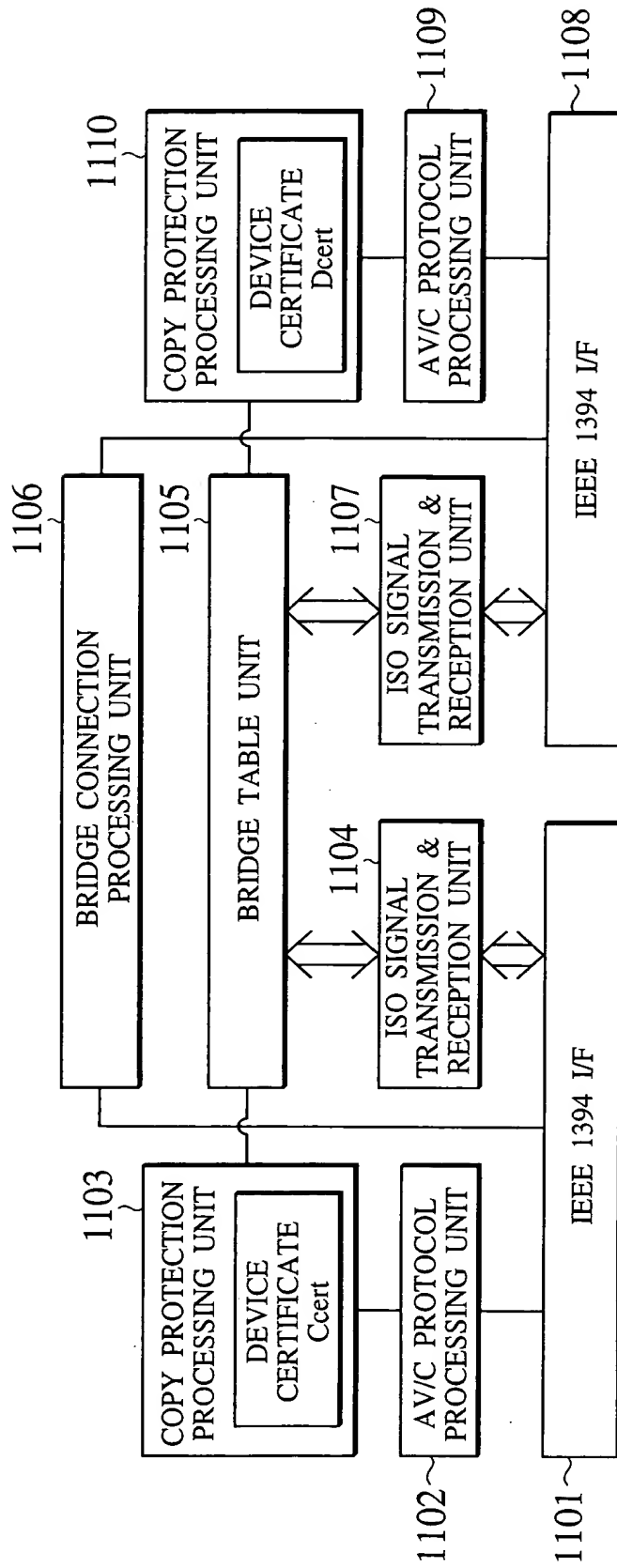




FIG. 9

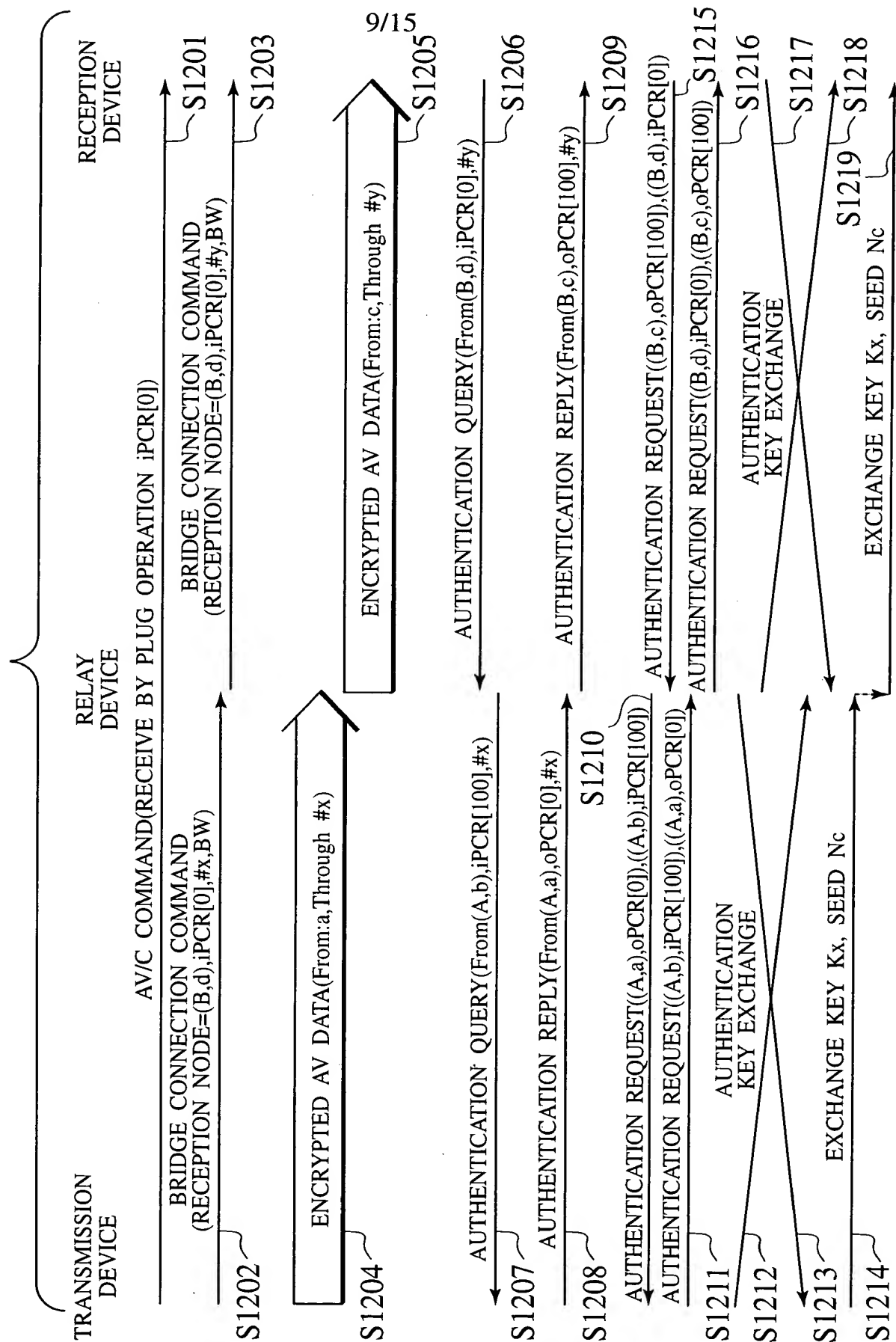


FIG.10A

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| 1ST IEEE 1394 SIDE   |                                      | 2ND IEEE 1394 SIDE |
|----------------------|--------------------------------------|--------------------|
| #x                   | ISOCRONOUS<br>CHANNEL NUMBER         | #y                 |
| TRANSMITTING<br>SIDE | TRANSMISSION/<br>RECEPTION DIRECTION | RECEIVING<br>SIDE  |
|                      | SENDER                               |                    |
|                      | VIRTUAL PLUG<br>OF THIS DEVICE       |                    |
|                      | AUTHENTICATION<br>TARGET             |                    |

FIG.10B

| 1ST IEEE 1394 SIDE   |                                      | 2ND IEEE 1394 SIDE |
|----------------------|--------------------------------------|--------------------|
| #x                   | ISOCRONOUS<br>CHANNEL NUMBER         | #y                 |
| TRANSMITTING<br>SIDE | TRANSMISSION/<br>RECEPTION DIRECTION | RECEIVING<br>SIDE  |
| (A,a)                | SENDER                               | THIS DEVICE        |
|                      | VIRTUAL PLUG<br>OF THIS DEVICE       |                    |
|                      | AUTHENTICATION<br>TARGET             |                    |

FIG.10C

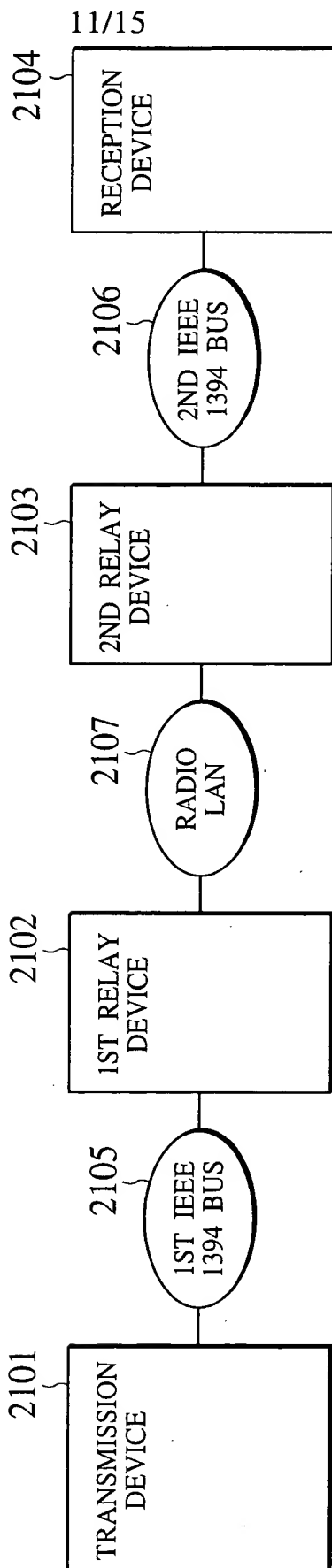
| 1ST IEEE 1394 SIDE   |                                      | 2ND IEEE 1394 SIDE |
|----------------------|--------------------------------------|--------------------|
| #x                   | ISOCRONOUS<br>CHANNEL NUMBER         | #y                 |
| TRANSMITTING<br>SIDE | TRANSMISSION/<br>RECEPTION DIRECTION | RECEIVING<br>SIDE  |
| (A,a)                | SENDER                               | THIS DEVICE        |
| iPCR[100]            | VIRTUAL PLUG<br>OF THIS DEVICE       |                    |
|                      | AUTHENTICATION<br>TARGET             | (B,d),iPCR[0]      |

FIG.10D

| 1ST IEEE 1394 SIDE   |                                      | 2ND IEEE 1394 SIDE |
|----------------------|--------------------------------------|--------------------|
| #x                   | ISOCRONOUS<br>CHANNEL NUMBER         | #y                 |
| TRANSMITTING<br>SIDE | TRANSMISSION/<br>RECEPTION DIRECTION | RECEIVING<br>SIDE  |
| (A,a)                | SENDER                               | THIS DEVICE        |
| iPCR[100]            | VIRTUAL PLUG<br>OF THIS DEVICE       | oPCR[100]          |
| (A,a),oPCR[0]        | AUTHENTICATION<br>TARGET             | (B,d),iPCR[0]      |

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FIG.11



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FIG.12

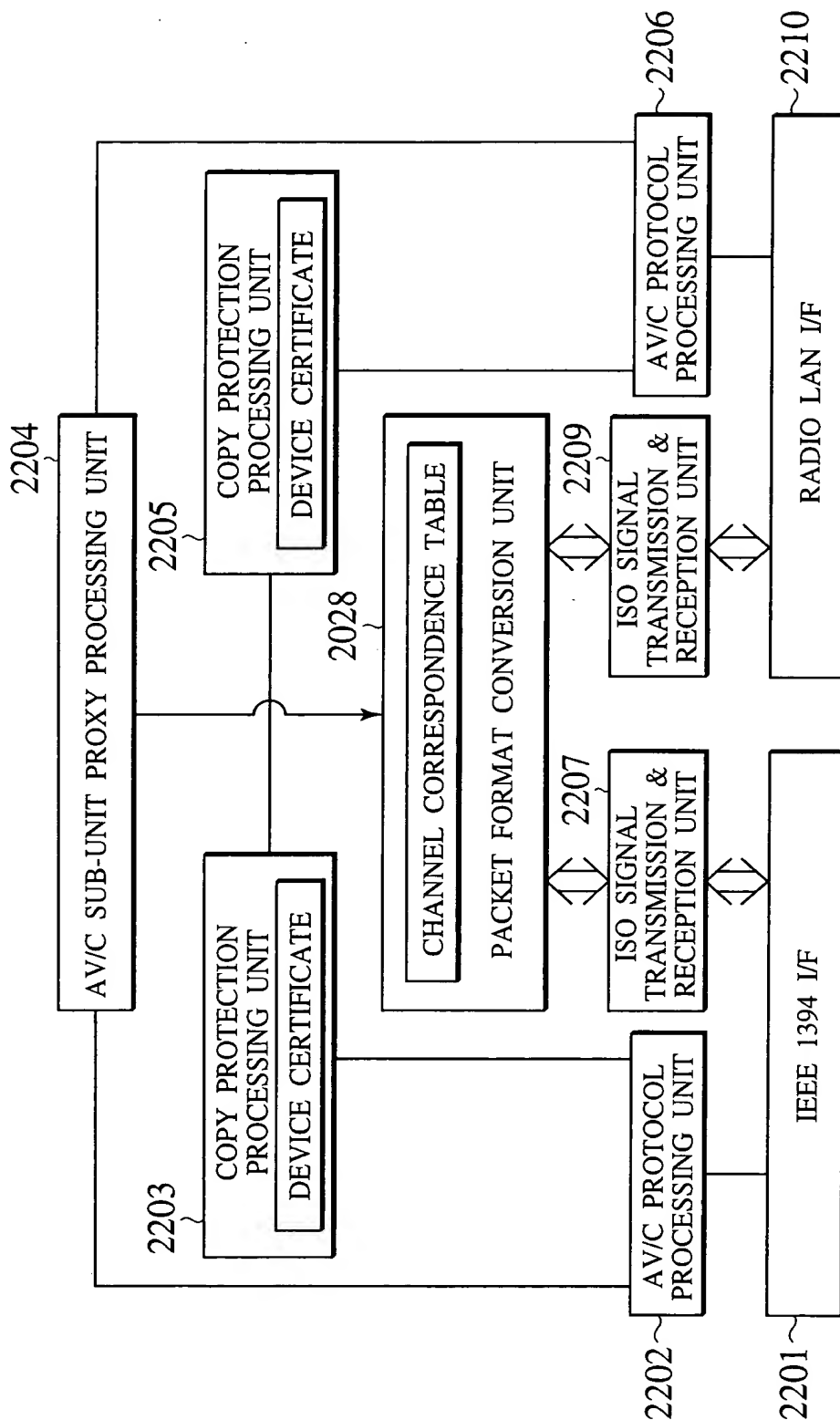


FIG.13

|                        |                                      |                                |
|------------------------|--------------------------------------|--------------------------------|
| 1ST IEEE 1394 SIDE     |                                      | RADIO LAN SIDE                 |
| #x                     | ISOCHRONOUS<br>CHANNEL NUMBER        | #y                             |
| TRANSMITTING SIDE      | TRANSMISSION/<br>DIRECTION DIRECTION | RECEIVING SIDE                 |
| TRANSMISSION<br>DEVICE | SENDER                               | oPCR[0] OF THIS DEVICE         |
| TRANSMISSION<br>DEVICE | AUTHENTICATION<br>TARGET             | iPCR[0] OF<br>2ND RELAY DEVICE |
| THIS DEVICE            | RECEIVER                             | iPCR[0] OF<br>2ND RELAY DEVICE |

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FIG.14

| RADIO LAN SIDE                 |                                      | 2ND IEEE 1394 SIDE |
|--------------------------------|--------------------------------------|--------------------|
| #y                             | ISOCHRONOUS<br>CHANNEL NUMBER        | #z                 |
| TRANSMITTING SIDE              | TRANSMISSION/<br>RECEPTION DIRECTION | RECEIVING SIDE     |
| 1ST RELAY DEVICE               | SENDER                               | THIS DEVICE        |
| oPCR[0] OF<br>1ST RELAY DEVICE | AUTHENTICATION<br>TARGET             | RECEPTION DEVICE   |
| iPCR[0] OF<br>THIS DEVICE      | RECEIVER                             | RECEPTION DEVICE   |

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FIG.15

